



Issues

**MANDATORY BULLETIN No. EV 97 – 011 a
SPORTSTAR – 011 a**

1. **CONCERNING TO:** All EV-97 EUROSTAR airplanes, which already reached 2000 total hours flown, as well as SportStar airplanes, which already reached 3000 total hours flown.
2. **REASON :** **Introduction of a new periodical inspection after 2000 hours (EV-97 EUROSTAR) and after 3000 hours (SportStar).**
3. **REQUIRED ACTION:** Perform inspection according to the Appendix 1 of this bulletin within the scope of the nearest 100 hours inspection. Record inspection into the Airplane Log Book. Inform the airplane manufacturer on performance and results of the inspection.
4. **LATEST DATE OF THE ACTION:** within the scope of the nearest 100 hours inspection.
5. **ACTION CARRIED OUT BY:** Appropriately authorized person (depends on the regulations valid in particular country).
6. **COSTS COVERED BY:** Airplane owner.
7. **NECESSARY MATERIAL :** see Appendix 1
8. **WORK PROCEDURE :** see Appendix 1
9. **ENCLOSURES:** Appendix 1 – Inspection of EV-97 EUROSTAR Airplane after 2000 hours and SportStar Airplane after 3000 hours.
10. **ELABORATED BY :** Jan Fridrich Sr., Technical Department

Approved by: Petr Javorsky, LSA Project Manager

Date: 9.6.2009

**Appendix 1 Inspection of EV-97 EUROSTAR Airplane after 2000 hours and SportStar Airplane after 3000 hours.**

Type:	S/N:	Time Since New [hrs]:	Check performed on:
	Registration mark:	Time Since New [cycles]:	

Action No.	Subject of the check (Checks for cracks, deformations, wearing, missing parts, etc.)	Check <input checked="" type="checkbox"/> tick off the performed check		Carried out by	Checked by
		After 2,000 FH EV-97	After 3000 FH SportStar		
		Repetition after 500 FH	Repetition after 1000 FH		
	Before start of the check – clean or wash polluted surface of the aircraft, if necessary Check aids: mirror, electric torch, magnifying glass 1:4 or 1:10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.	Fuselage				
1.1.1	Fuselage central section hinges				
1.1.2	Fuselage central section hinges				
1.1.3	Area of connection of caps and webs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.1.4	Area of connection of caps and webs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.1.5	Wing hinges, flap control hinges	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.2.1	Stabilizer hinges	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.3.3	Main landing gear attachment under seats	<input checked="" type="checkbox"/>			
1.3.4	Main landing gear attachment under seats		<input checked="" type="checkbox"/>		
1.4.1	Nose landing gear attachment		<input checked="" type="checkbox"/>		
1.4.2	Nose landing gear attachment	<input checked="" type="checkbox"/>			
1.5.1	Left upper engine hinge on the fire wall	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.5.2	Left bottom engine hinge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.5.3	Attachment of the left upper engine hinge on the fire wall	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.6.1	Area of the fuselage reinforcement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.6.2	Area of the fuselage reinforcement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.6.3	Area of the fuselage reinforcement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.6.4	Bottom part of the fuselage under the left bottom engine hinge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.6.5	Check of the rivet joints of the main undercarriage to the wing centre section spar caps	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1.7.1	Towing equipment hinge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2.	Wing				
2.1	Bottom part of the wing in the area of wing-fuselage hinges	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2.2	Access to check of caps through the rib No. 1				
2.3	Wing hinges between ribs 1 and 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2.4	Bottom part of the wing in the area of wing-fuselage hinges	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2.5	Wing spar with hinges	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2.6	Wing spar with hinges	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		



Action No.	Subject of the check (Checks for cracks, deformations, wearing, missing parts, etc.)	Check		Carried out by	Checked by
		<input checked="" type="checkbox"/> tick off the performed check			
		After 2,000 FH EV-97 Repetition after 500 FH	After 3000 FH SportStar Repetition after 1000 FH		
2.7	Upper hinge				
2.8	Bottom hinge				
2.9	Area of bottom caps with wing-fuselage hinges	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2.10	Area of upper caps with wing-fuselage hinges	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3.	Tail unit				
3.1.1	Stabilizer hinges	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3.1.2	Stabilizer hinges				
3.2	Stabilizer spar	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3.4	Rudder step bearing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3.4.2	Fin spar with rudder hinges	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4.	Control system	According to the simultaneous 100 hrs check			
5.	Landing gear				
5.1.1	Main landing gear leg		<input checked="" type="checkbox"/>		
5.1.2	Main landing gear leg critical place	<input checked="" type="checkbox"/>			
5.1.3	Attachment of the wheel axis with the nose landing gear leg	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5.2.1	Nose landing gear leg	<input checked="" type="checkbox"/>			
5.2.2	Nose landing gear leg		<input checked="" type="checkbox"/>		
6.	Engine installation				
6.2	Engine bed in the area of hinges	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.	Electrical instruments	According to the simultaneous 100 hrs check			
8.	Equipment	According to the simultaneous 100 hrs check			



1.1.1



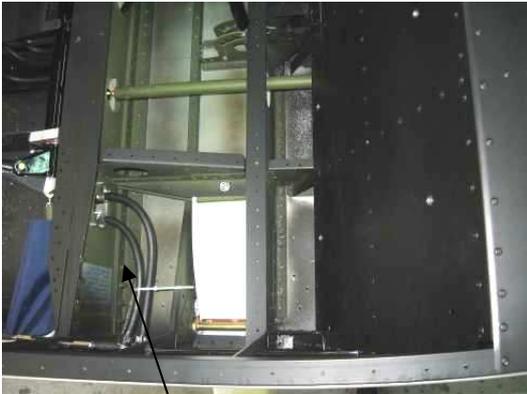
Fuselage central section hinges,
see figures 1.1.3 and 1.1.4

1.1.2



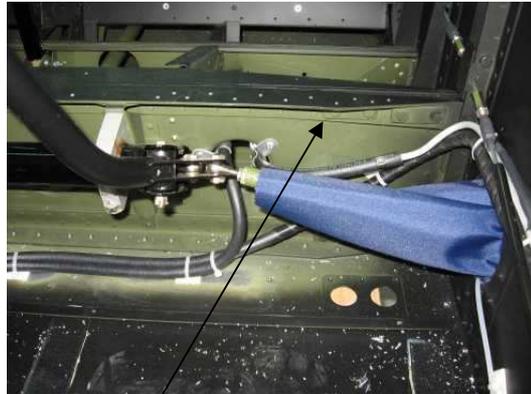
Fuselage central section hinges,
see figures 1.1.3 and 1.1.4

1.1.3

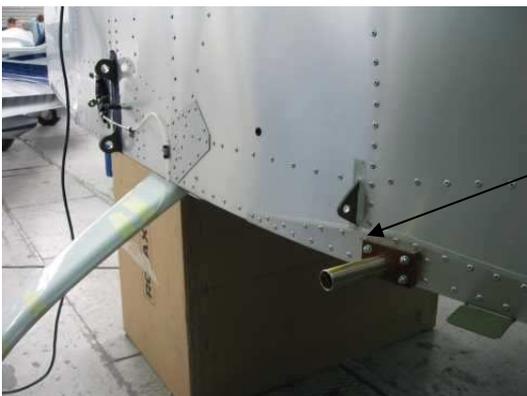


Area of connection of caps and webs
(after drilling out of seats)
1.1.5

1.1.4



Area of connection of caps and webs
(after drilling out of seats)



Max. radial play - 0.2 mm

Wing hinges, flap control hinges

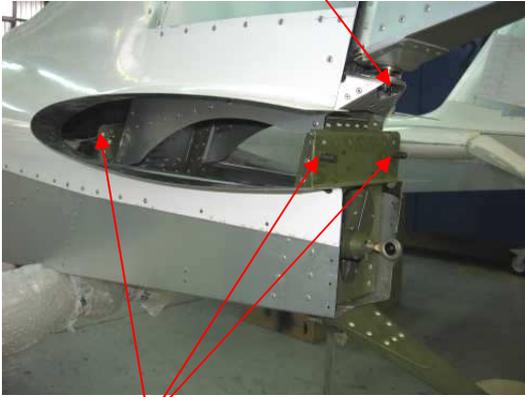
Maximum diameters of pins EV-97 $\text{Ø}16+0.03$ mm
 SportStar $\text{Ø}15+0.03$ mm

Minimum diameters of pins EV-97 $\text{Ø}16+0.03$ mm
 SportStar $\text{Ø}16-0.03$ mm

Maximum diameter of rear hinge $\text{Ø}8+0.04$ mm



1.2.1 Rudder root hinge



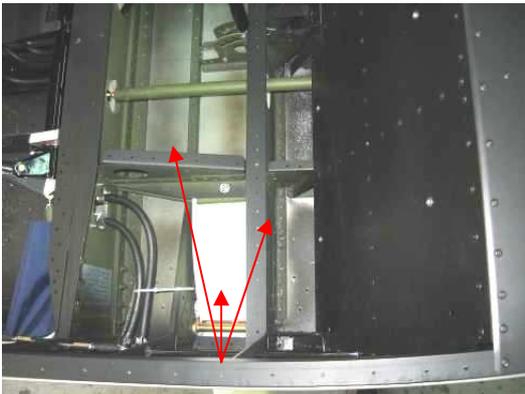
Stabilizer hinges
Check of hinges rivet connections
Pin diameters: min $\varnothing 6-0.04$ mm
 $\varnothing 8-0.05$ mm

1.3.3



Main landing gear attachment under seats - EV-97
Check of rivet connections in the area
of the main landing gear attachment

1.3.4



Main landing gear attachment under seats
Check of rivet connections in the area
of the main landing gear attachment

1.4.1



Nose landing gear attachment
- SportStar aircraft

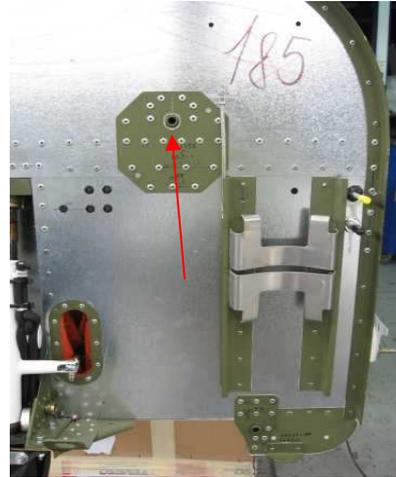


1.4.2



Nose landing gear attachment
EV-97

1.5.1



Left upper engine hinge on the fire wall
Check of rivet joints
(front view)

1.5.2



Left bottom engine hinge
Check of the hinge and riveted joints
(front view)

1.5.3



Attachment of the left upper engine hinge on the
fire wall
Check of the hinge and riveted joints
(view from inside of the fuselage)

1.6.1



Area of the fuselage reinforcement
Check of the hinge and riveted joints

1.6.2



Area of the fuselage reinforcement
Check of the hinge and riveted joints



1.6.3



Area of the fuselage reinforcement
Check of the hinge and riveted joints

1.6.4



Bottom part of the fuselage
under the left bottom engine hinge
Check of the hinge and riveted joints

1.6.5



Wing central section joints

1.7.1



Towing equipment hinge
Check of condition of rivet joints



2.1 Bottom part of the wing in the area of wing-fuselage hinges



View on the bottom part of the wing in the area of wing-fuselage hinges

2.2 Access to check of caps through the rib No. 1



Access to check of caps through the rib No. 1 (only for information)

2.3 Wing hinges between ribs 1 and 2



View on wing hinges between ribs 1 and 2 (without front skin)

2.4 Bottom part of the wing in the area of wing-fuselage hinges



Rear hinge - max. $\varnothing 8+0.04$ mm
View on the bottom part of the wing in the area of wing-fuselage hinges (unfinished wing, only for info)

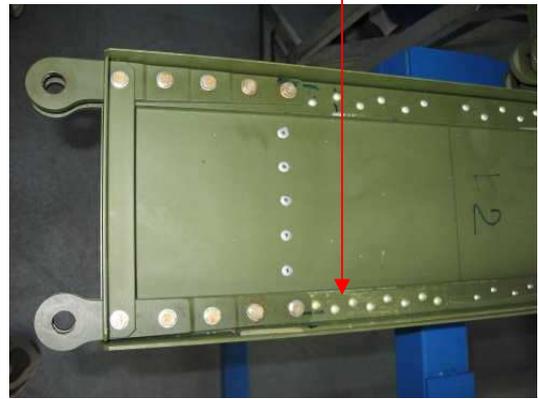


2.5 Critical area of the cap at the end of the hinge



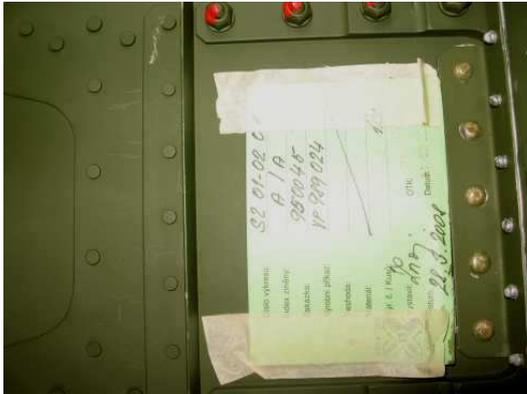
Wing spar with hinges
Check of joints

2.6 Critical area of the cap at the end of the hinge



Wing spar with hinges
Check of joints

2.7



Upper hinge
Area of the wing spar
(view against the flight direction, for information only)

2.8



Bottom hinge
Area of the wing spar
(view against the flight direction, for information only)

2.9



Area of bottom caps with wing-fuselage hinges
(view from inside through openings in the rib No. 1)

2.10



Area of bottom caps with wing-fuselage hinges
- the last bolt – check of joint
(view from inside through openings in the rib No. 1)

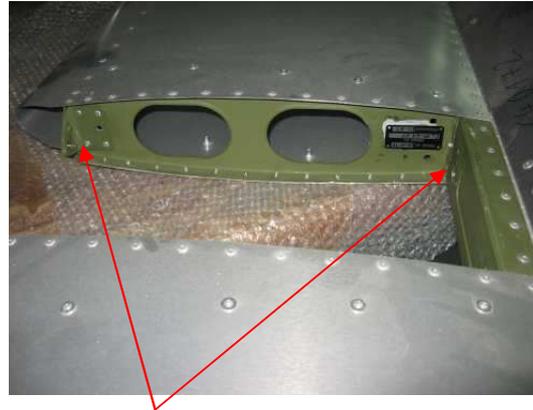


3.1.1



Stabilizer hinges
Check of hinge rivet joints
Hinges openings diameters: $\varnothing 8+0.04$ mm; $\varnothing 6+0.03$ mm

3.1.2



Stabilizer hinges
(for information only)

3.2



Stabilizer spar
Check of caps in the central part of the stabilizer

3.4



Rudder step bearing
Rudder step bearing
Check of rivet joints and play
in the rudder hinge (max. 0.05 mm)



3.4.2



Fin spar with rudder hinges
Check of spar caps
(after dismantling of the rudder)

5.1.1



Main landing gear leg - SportStar
Check area - under the pencil

5.1.2



Main landing gear leg - EV-97

5.1.3



Attachment of the wheel axis with the nose landing gear leg

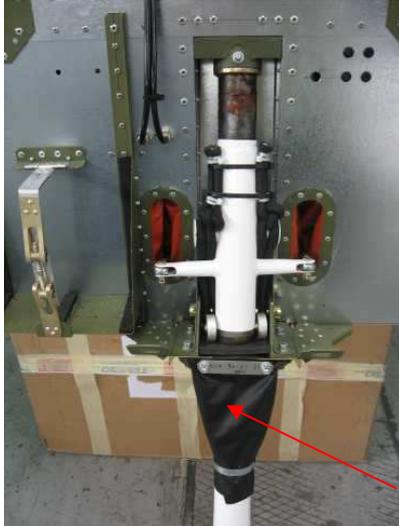
5.2.1



Nose landing gear leg
- check of the central guiding area - EV-97



5.2.2



Nose landing gear leg
- check of the central guiding area - SportStar

6.2



Nose landing gear leg
area of hinges on the fire wall and at the engine
(the critical place is indicated)